

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference TFJ/JY/42178	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2004/002853	International filing date (day/month/year) 02/07/2004	(Earliest) Priority Date (day/month/year) 04/07/2003
Applicant EXPRO NORTH SEA LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (See Box II).

3. Unity of invention is lacking (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 1.

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

- b. none of the figures is to be published with the abstract.

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International application No.

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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A data communication technique for use in producing wells. Signals are transmitted through the product (P) by varying and monitoring flow rate at respective ends of the communication channel. At low data rates robust communication can be provided.

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International application No.
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-13, 17-26, 30-34

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-13,17-26,30-34

downhole data communication

2. claims: 14-16,27-29

a flow rate meter

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International Application No
PCT/GB2004/002853

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B47/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E21B G05D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 160 565 A (EXXON PRODUCTION RESEARCH CO) 24 December 1985 (1985-12-24) the whole document -----	1-13, 17-26, 30-34
X	FR 2 721 347 A (MAGELLAN CY LTD; ENGINEERING INDUSTRY LTD) 22 December 1995 (1995-12-22) the whole document -----	1-13, 17-26, 30-34
X	US 4 774 694 A (MOLL HELMUT) 27 September 1988 (1988-09-27) the whole document -----	1
X	US 6 097 310 A (MORSY HATEM SALEM ET AL) 1 August 2000 (2000-08-01) the whole document ----- -/-	1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

20 September 2004

Date of mailing of the international search report

10.12.2004

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International Application No PCT/GB2004/002853

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 105 690 A (BIGLIN JR DENIS P ET AL) 22 August 2000 (2000-08-22) the whole document -----	1
X	GB 2 368 861 A (SCHLUMBERGER HOLDINGS) 15 May 2002 (2002-05-15) the whole document -----	1
X	WO 02/072993 A (BAKER HUGHES INC) 19 September 2002 (2002-09-19) the whole document -----	1
A	EP 0 744 527 A (BAKER HUGHES INC) 27 November 1996 (1996-11-27) the whole document -----	1-25

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Information on patent family members

 International Application No
PCT/GB2004/002853

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
GB 2160565	A	24-12-1985	US AU NO	H55 H 4380185 A 852332 A		06-05-1986 02-01-1986 19-12-1985
FR 2721347	A	22-12-1995	GB FR	2290320 A 2721347 A1		20-12-1995 22-12-1995
US 4774694	A	27-09-1988	CA US	1189443 A1 4694439 A		25-06-1985 15-09-1987
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US 6105690	A	22-08-2000	NONE			
GB 2368861	A	15-05-2002	US	6536529 B1		25-03-2003
WO 02072993	A	19-09-2002	CA EP NO WO US	2440815 A1 1377725 A2 20034083 A 02072993 A2 2002159333 A1		19-09-2002 07-01-2004 12-11-2003 19-09-2002 31-10-2002
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